

Hardness Tester

Abstract of the Disclosure

A hardness tester includes a supporting frame having a guiding channel, a driving axle slidably disposed in the supporting frame, and a penetrating pin, having a pin head, coaxially disposed in the guiding channel in a slidably movable manner to coaxially align with the driving axle for the pin head to penetrate on a testing surface of a tested object. A linear displacement device includes a transmission shaft movably disposed in the supporting frame at a position universally contacting between the driving axle and the penetrating pin, and a displacement sensor supported at the transmission shaft, wherein when the driving axle is driven for applying a penetrating force to the penetrating pin through the transmission shaft, the linear sensor detects a linear displacement of the transmission shaft with respect to the penetrating pin for measuring the hardness of the tested object.